

REACH

ELECTRIC HEATING, SENSING & CONTROLS

HEATING PRODUCTS

Cert. No.: SG02/00221



ICPlus-915 Temperature Controllers (For Heating/Cooling & Humidity)

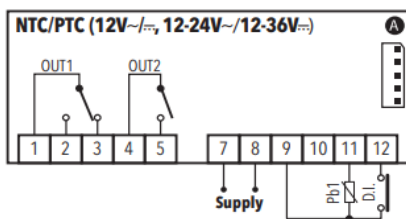


TECHNICAL DATA

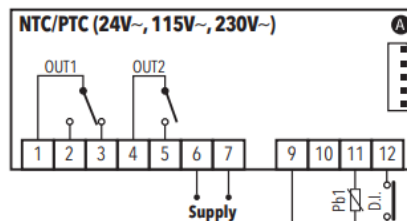
MODEL	ICPlus 915 NTC/PTC 12-24VAC-12-36V DC	ICPlus 915 NTC/PTC 230VAC	ICPlus 915 V/I 230VAC	ICPlus 915 TCJ/K PT100, 230VAC
Front Protection	IP65			
Casing	Resin plastic casing PC+ABS UL94 V-0, Polycarbonate front, thermoplastic resin buttons			
Dimensions:	Front panel 74x32mm, depth 59mm			
Mounting:	Panel mount (with template 71x29mm)			
Operating temperature	-5°C...55°C			
Analogue input	1 NTC/1 PTC	1 NTC/1 PTC	1 V-I (0-1V, 0-5V, 0-10V, 0-20...mA, 4...20mA)	1 PT100 Ohm/1 TC 'J'/1 TC 'K'
Digital outputs: (configurable)	OUT1	1 SPDT relay 8(3)A ½HP 250V~	1 SPDT relay 8(3)A ½HP 250V~	1 SPST relay 8(3)A ½HP 250V~
	OUT2	1 SPST relay 8(3)A ½HP 250V~	1 SPST relay 8(3)A ½HP 250V~	1 SPST relay 8(3)A ½HP 250V~
Measurement range	-50~140°C	-50~140°C	-999 to 1000	-150 to 1350
Power consumption:	3 VA max (mod. 230V)			
Power supply:	12-24VAC/DC			
	220/230V ±10% 50/60Hz			

Controllers

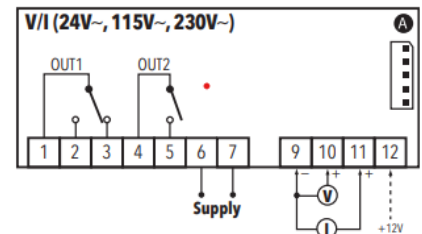
Part No.	Supply Voltage	Application
ICPlus 915 NTC/PTC	12-24VAC-12-36VDC	Heating/Cooling
ICPlus 915 NTC/PTC	230VAC	Heating/Cooling
ICPlus 915 H/D %RH	230VAC	Humidity
ICPlus 915 TC J/K PT100	230VAC	Heating/Cooling



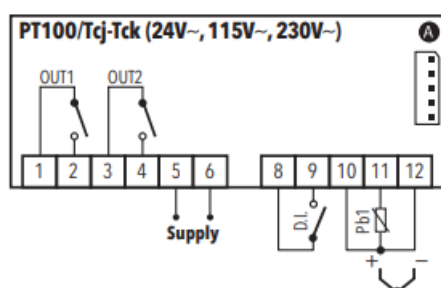
ICPlus 915 NTC/PTC 12-24VAC/DC
Connection Diagram



ICPlus 915 NTC/PTC 230VAC
Connection Diagram



ICPlus 915 V/I 230VAC
Connection Diagram



ICPlus 915 TCj-Tck/PT100
Connection Diagram

NTC/PTC/PT100/J/K Sensors



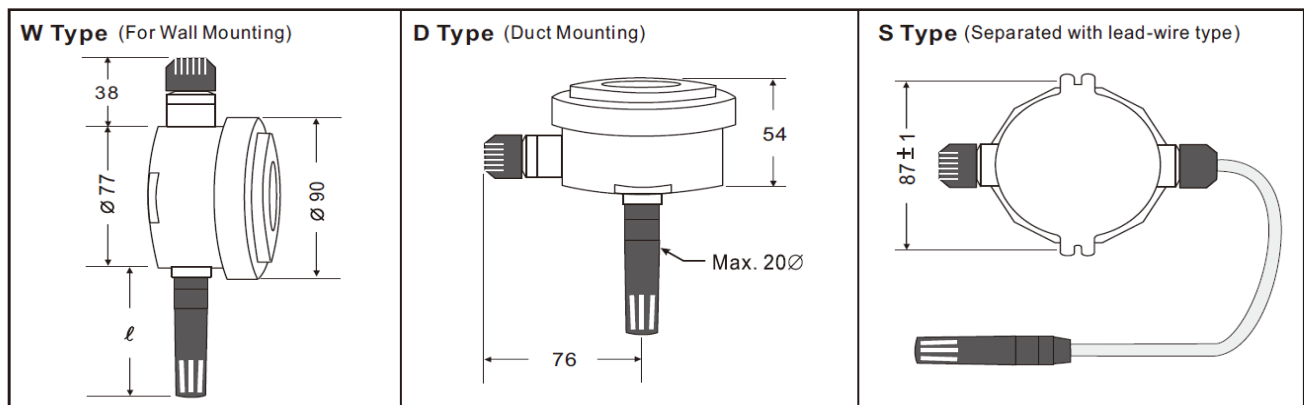
PTC/NTC Sensor

Part No.	Sensor Type	Sensor Size	Temp Range	Cable Insulation	Cable Length	Cable Color
SN8S0A1500	NTC 10K	Ø6X40mm	-50~120°C	Silicon	1.5m	Blue
SN8S0A3000	NTC 10K	Ø6X40mm	-50~120°C	Rubber	3.0m	Blue
SN7S0A1500	PTC 1K	Ø6X40mm	-50~120°C	Silicon	1.5m	Grey
SN7S0A3000	PTC 1K	Ø6X40mm	-50~120°C	Rubber	3.0m	Grey
SN8POA1500	NTC 10K	Ø6X40mm	-50~110°C	PVC/PVC	1.5m	Grey
SN8POA3000	NTC 10K	Ø6X40mm	-50~110°C	PVC/PVC	3.0m	Grey
SN7POA1500	PTC 1K	Ø6X40mm	-50~110°C	PVC/PVC	1.5m	Black
SN7POA3000	PTC 1K	Ø6X40mm	-50~110°C	PVC/PVC	3.0m	Black
PTC100-S	PT-100	Ø6X40mm	-50~400°C	Silicon	3.0m	Brown
HTC100-J	TC-J	Ø6X40mm	-50~400°C	Rubber	3.0m	Black
HTC100-K	TC-K	Ø6X40mm	-50~400°C	Rubber	3.0m	Green

Humidity Sensors

Model	Mounting Type	Output Signal	Description
TRH-301	W / D / S	A / V	Temperature Transmitter
TRH-302	W / D / S	A / V	Humidity Transmitter
TRH-303	W / D / S	A / V	Humi/Temp Transmitter

Dimension: (mm)

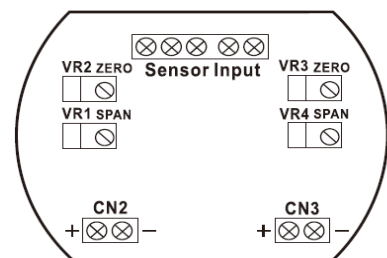


* Use by 3-4mm or 1/8" Screw for mounting

SPECIFICATION

Measurement Range	0~100% RH 0~100°C (-20~+80°C, 0~50°C, -40~+60°C also is available)
Accuracy (At 25°C)	± 2% RH, 0.3°C (※ Power supply = 24VDC)
Longterm Stability	Better than 1% RH per year (Typical)
Temp. Compensation	± 0.008% RH/°C (Effect@0% RH)
Response	< 15 seconds (90% at +25°C in moving air at 0.5M/S)
Sensors	Humidity: Thin-film capacitor Temperature: RTD-Pt100W IEC751, DIN43760
Output	Humidity: 4~20mA (2-wire) Temperature: 4~20mA (2-wire), scalable *Option available for Input Signal output 0~1V, 0~5V, 0~10V or 1~5V
Supply Voltage	12~40V DC, >150mA ※0~10V of output needs 18VDC of Power Supply
Max. Pressure	2.0kg/cm²
Housing	ABS plastic watertight enclosure (IP65)
Connections	Liquid-tight nylon, cable bushing: Ø5~10mm cable
Ambient Temperature	-40 ~ +60°C
Weight	Approx 150g

CALIBRATION & WIRING



- VR1): Span Adjustment for Humidity
- VR2): Zero Adjustment for Humidity
- VR3): Span Adjustment for Temperature
- VR4): Zero Adjustment for Temperature
- CN1): Sensor Input
- CN2): Output Humidity
- CN3): Output Temperature